

FIG. 1A

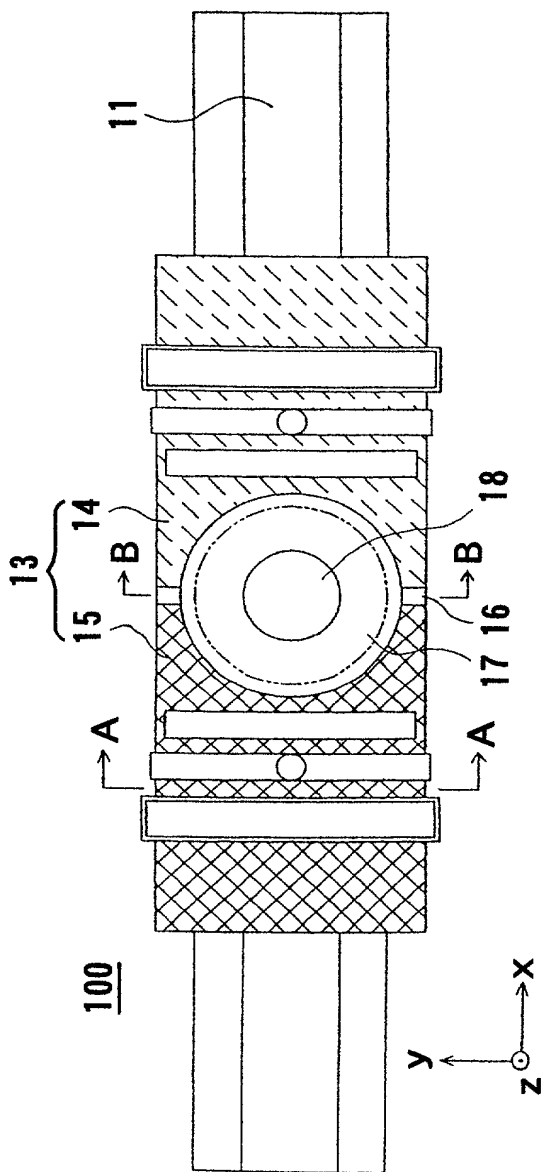


FIG. 1B

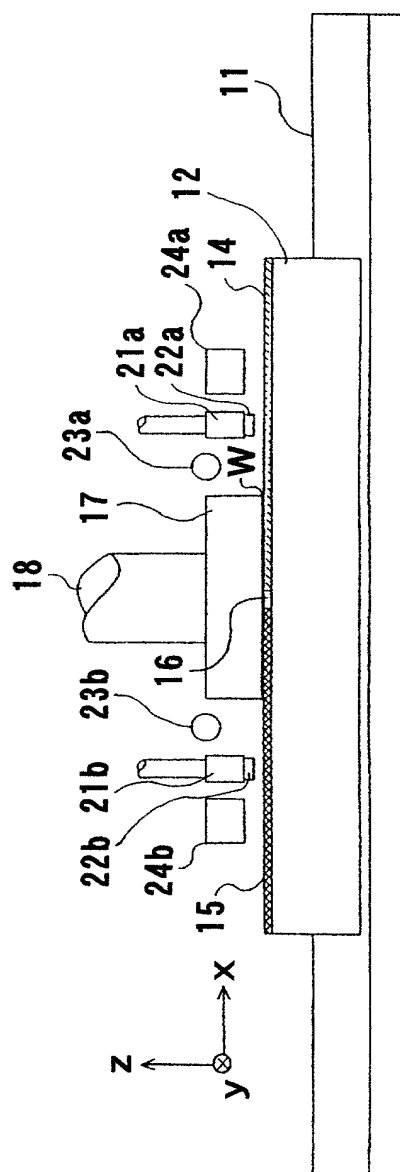


FIG. 2

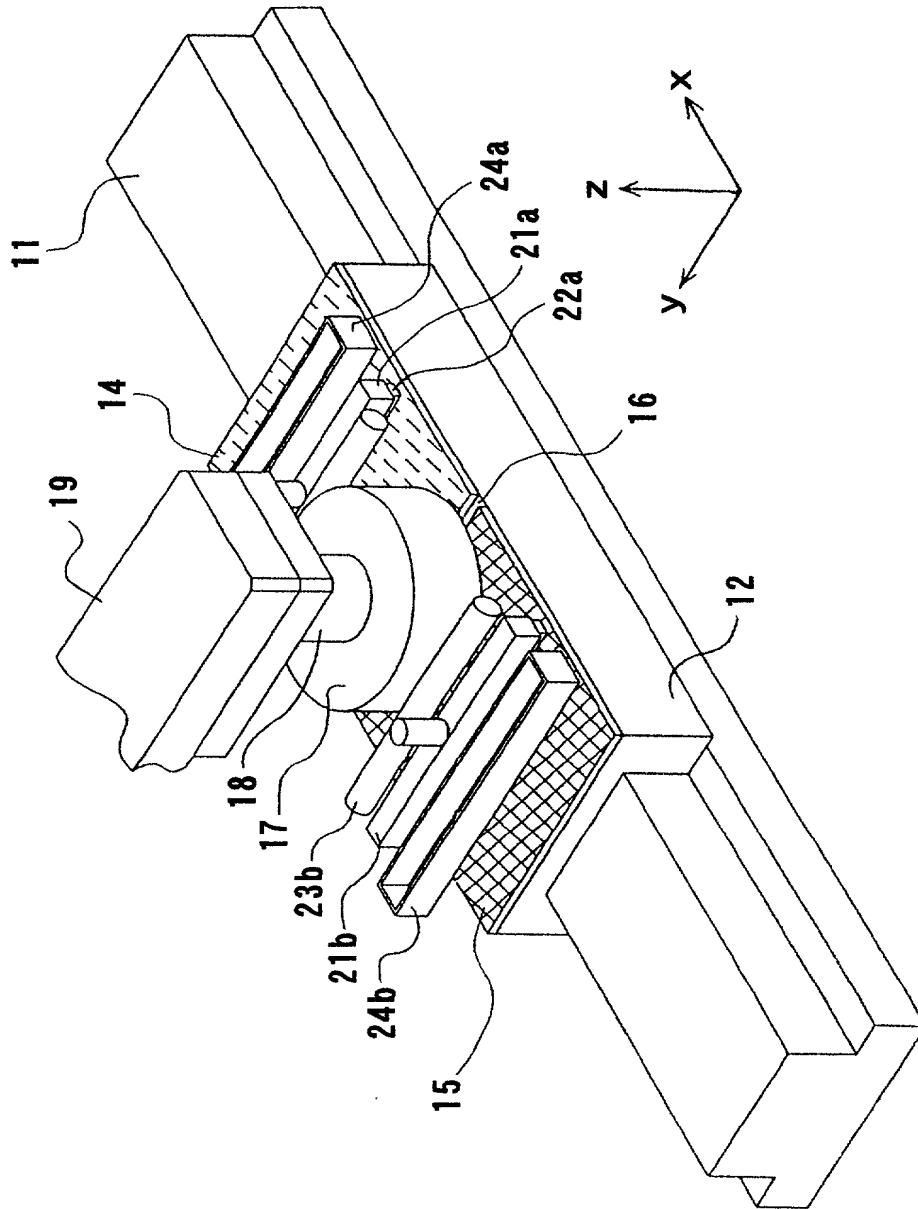


FIG. 3A

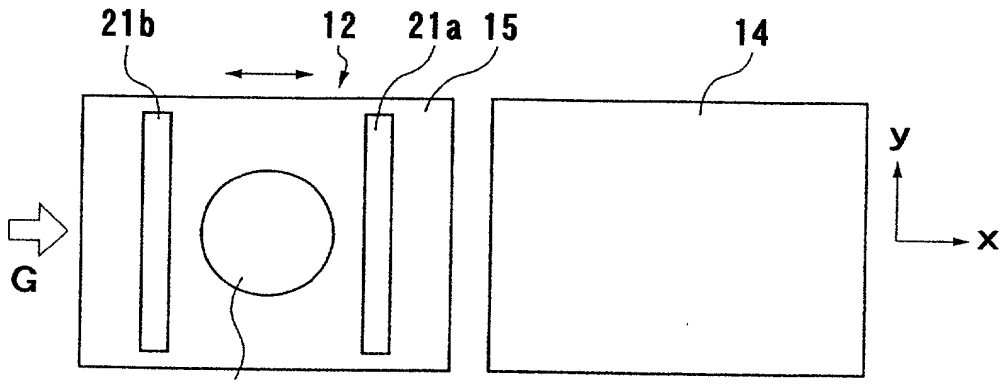


FIG. 3B

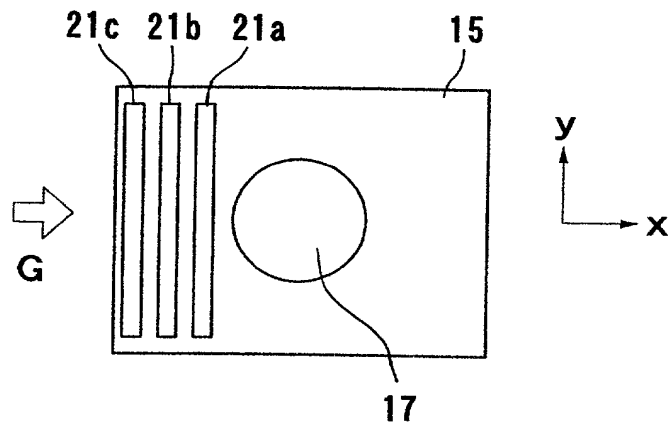
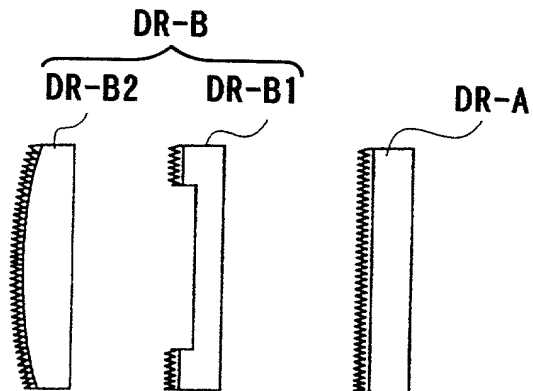


FIG. 3C



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FIG. 4

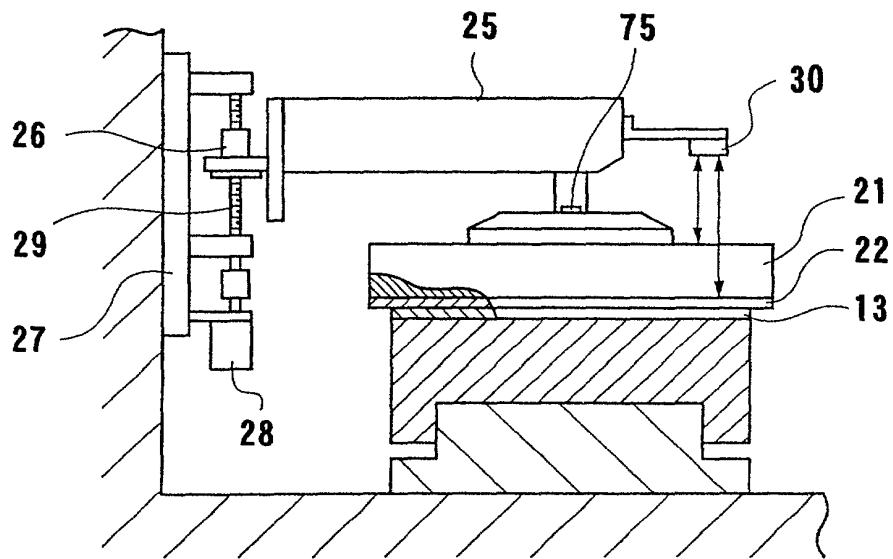


FIG. 5

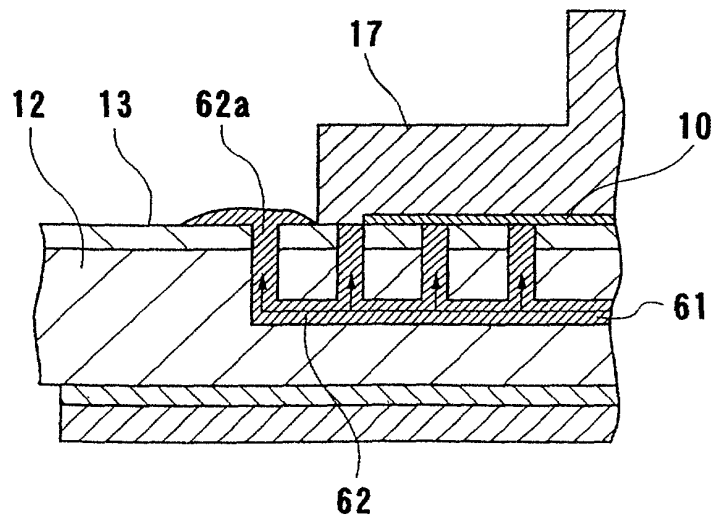


FIG. 6B

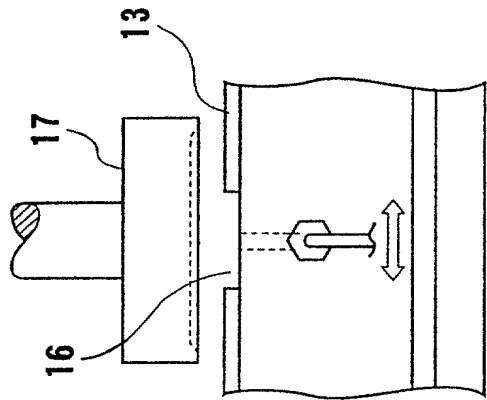


FIG. 6A

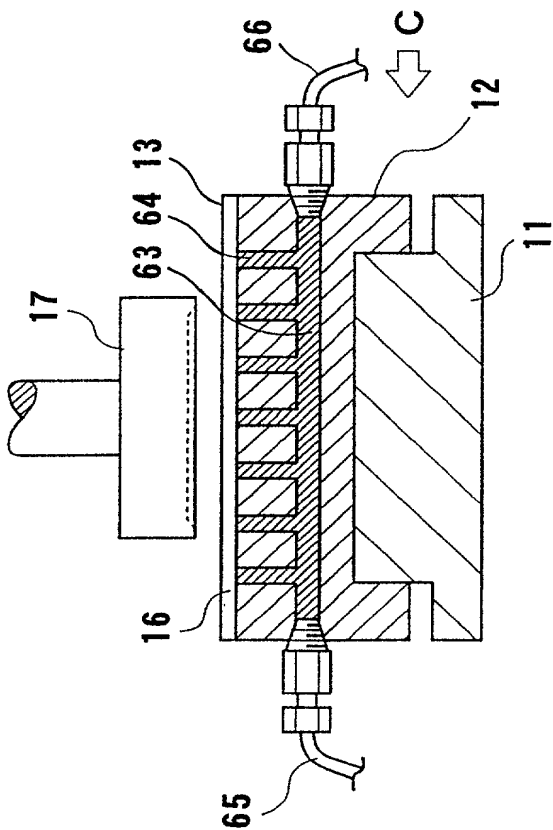
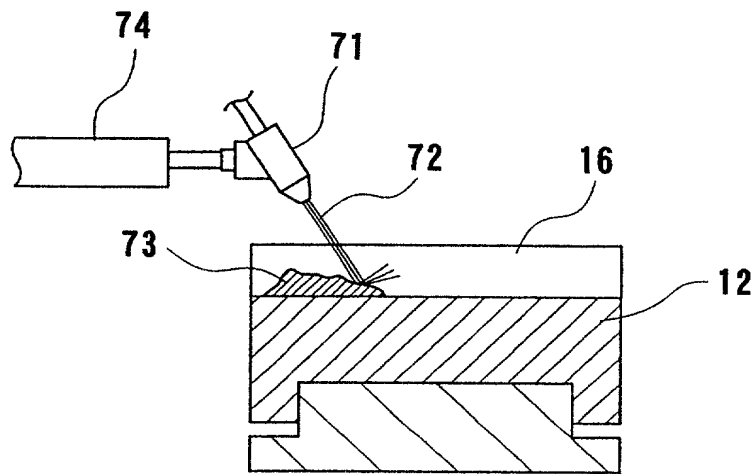


FIG. 7



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FIG. 8A

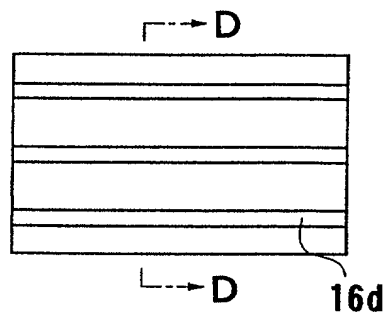


FIG. 8B

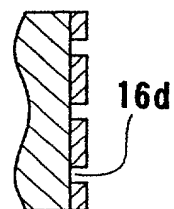


FIG. 9A

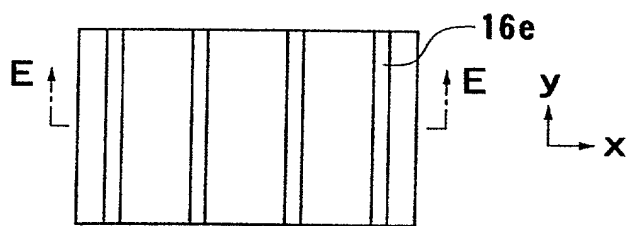


FIG. 9B

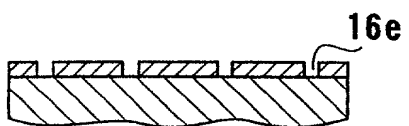
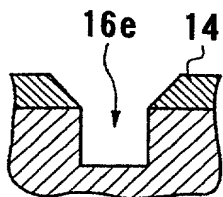


FIG. 9C



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FIG. 10A

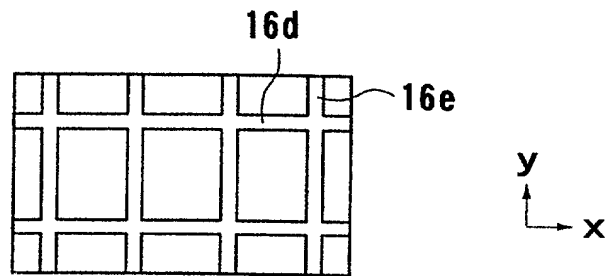


FIG. 10B

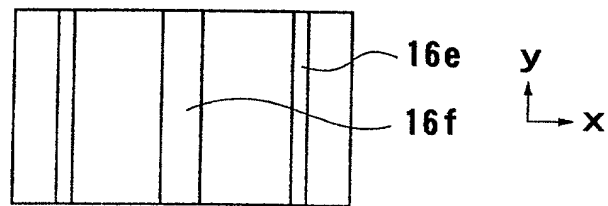


FIG. 10C

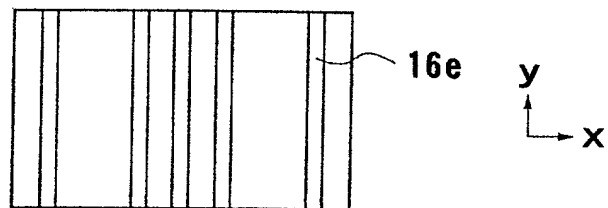


FIG. 11A

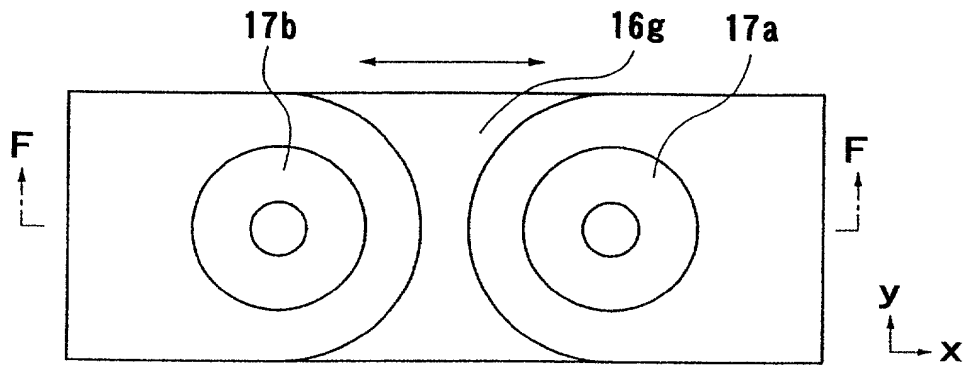


FIG. 11B

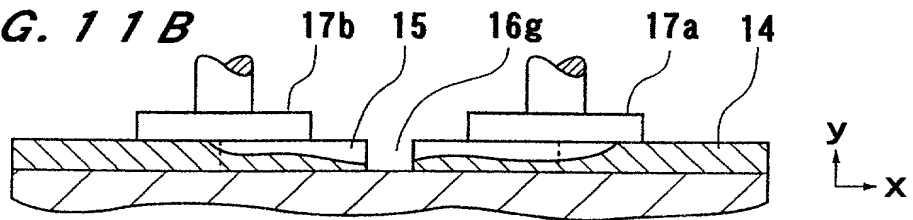


FIG. 11C

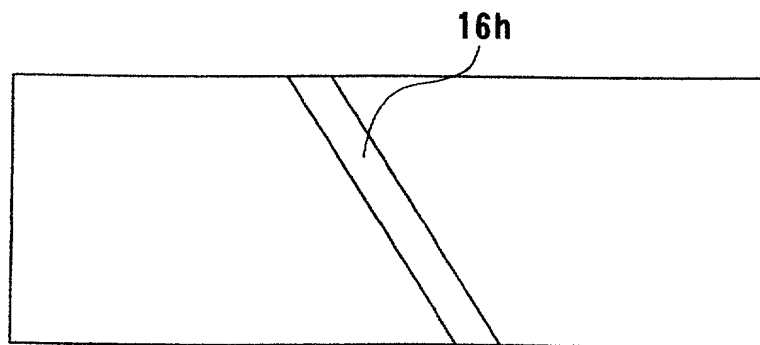
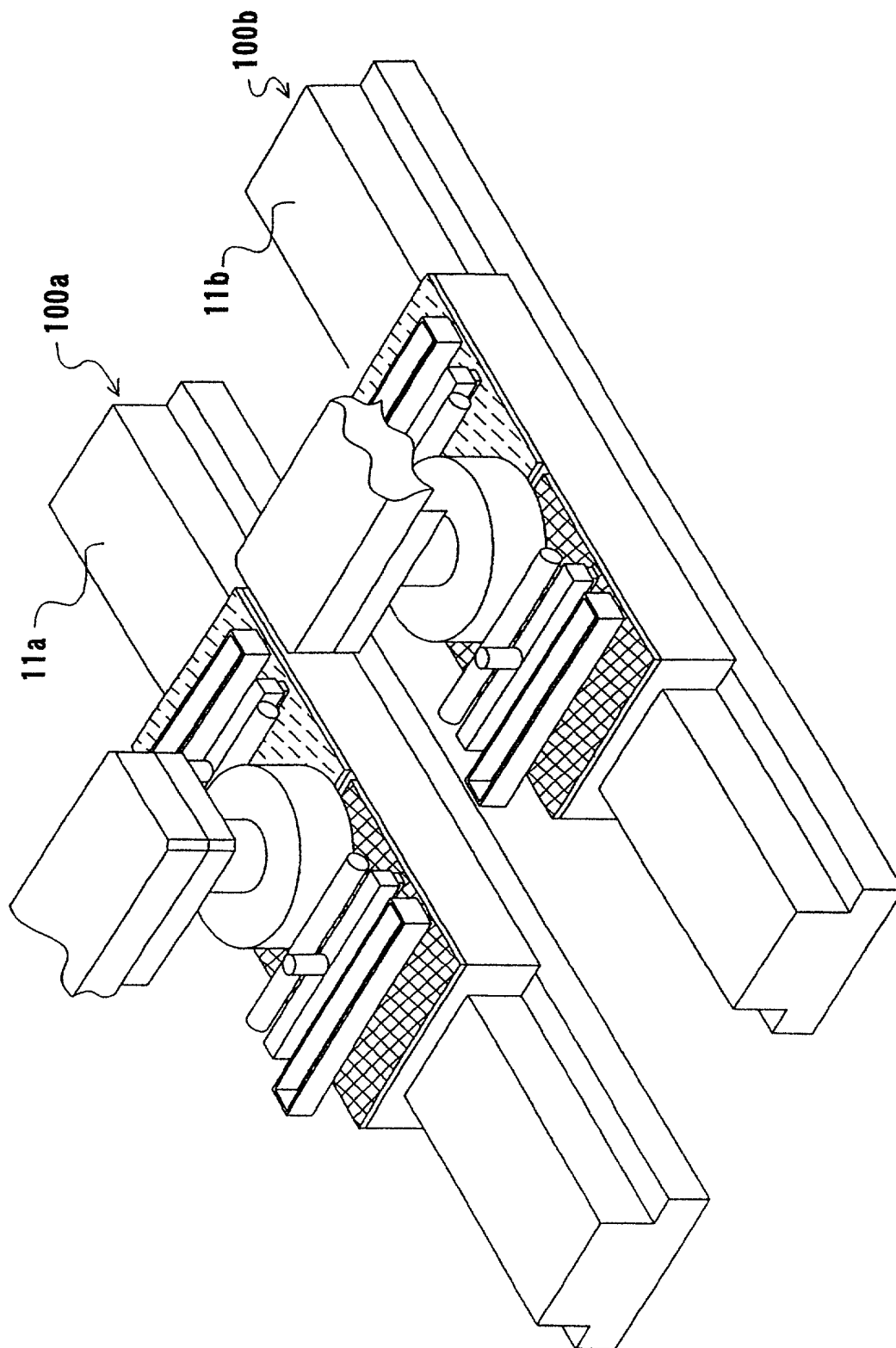


FIG. 12



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FIG. 13

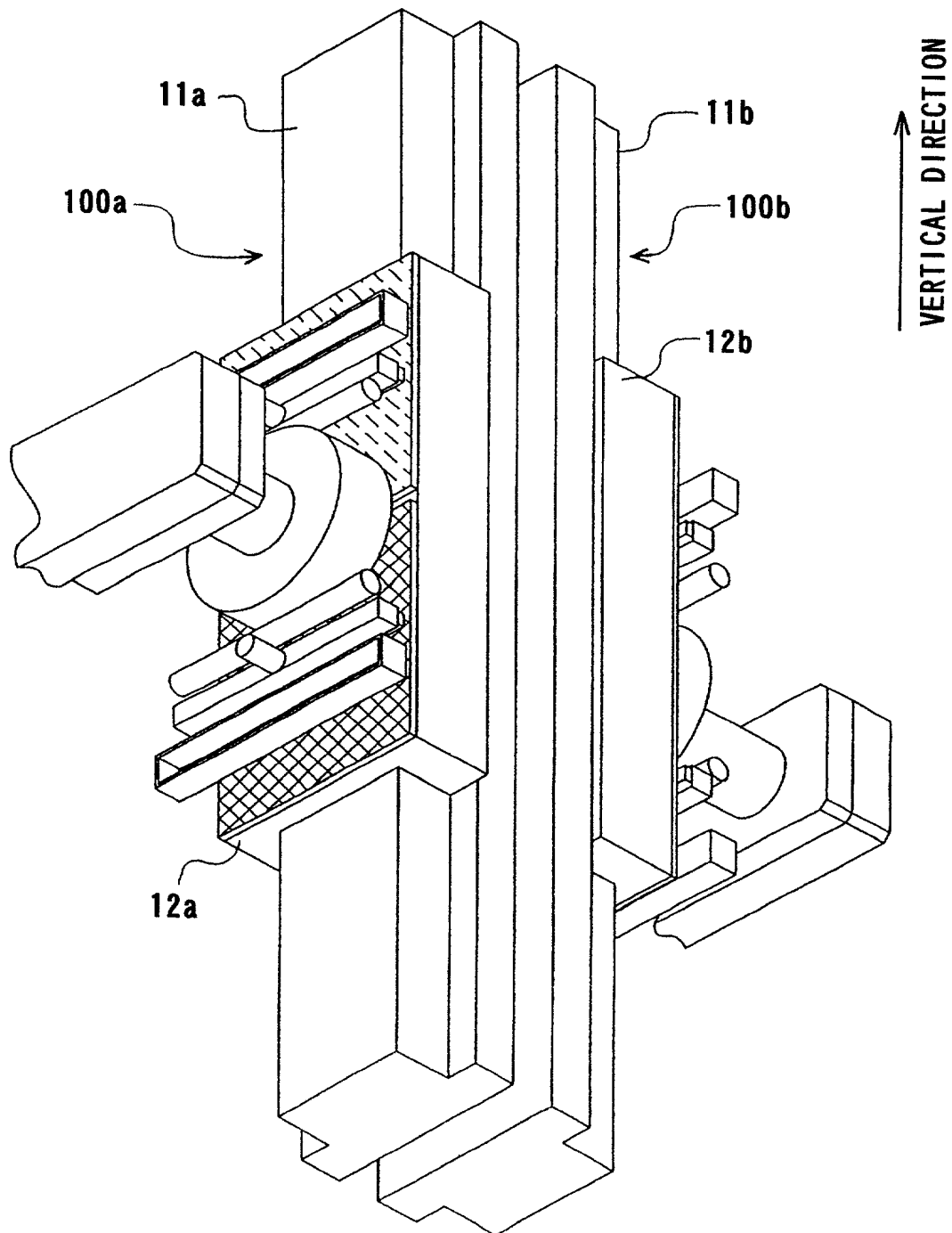


FIG. 14

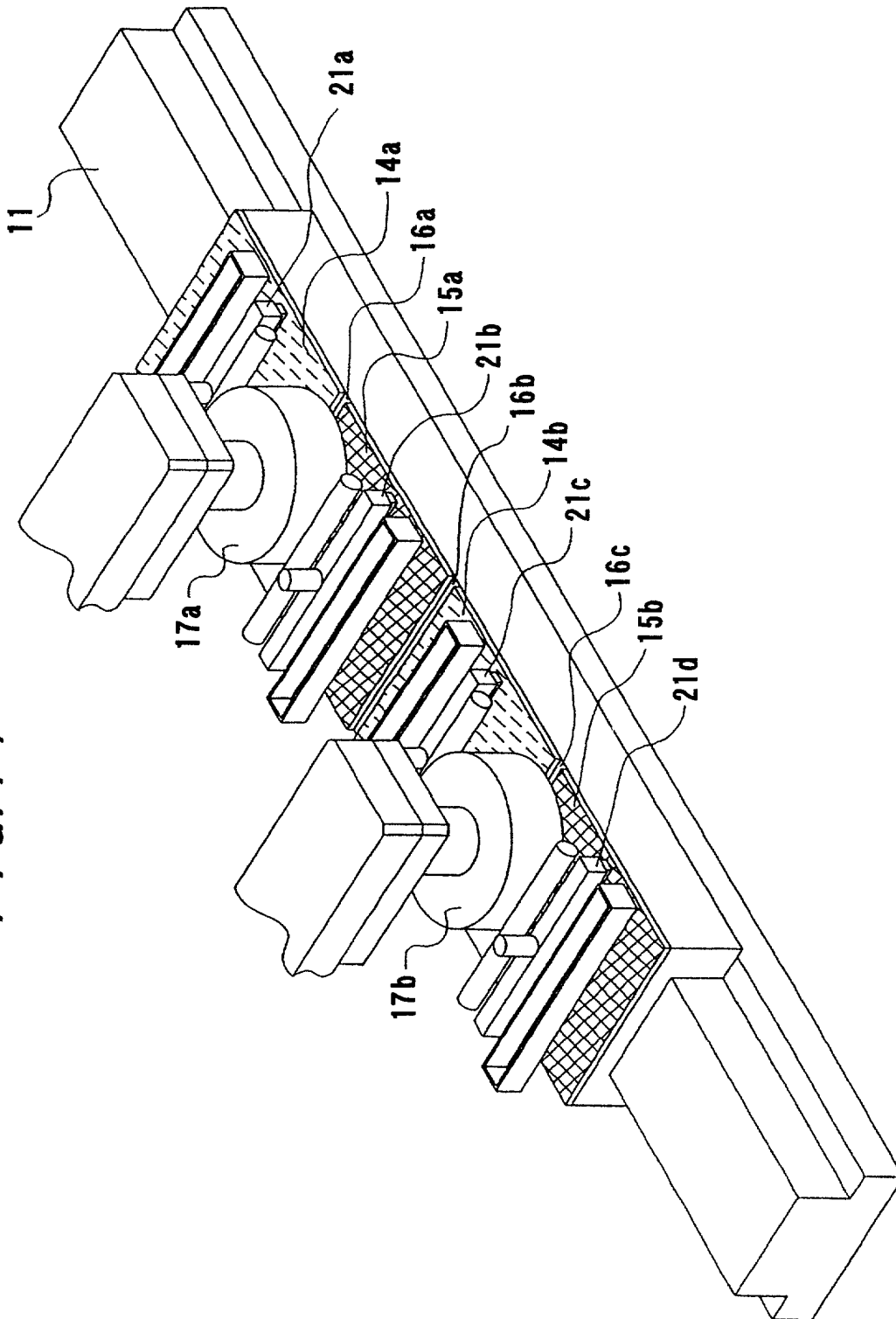


FIG. 15

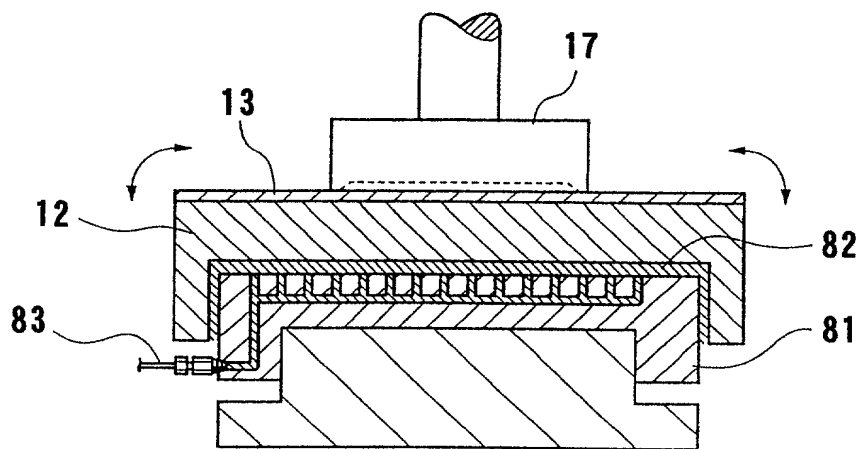


FIG. 16

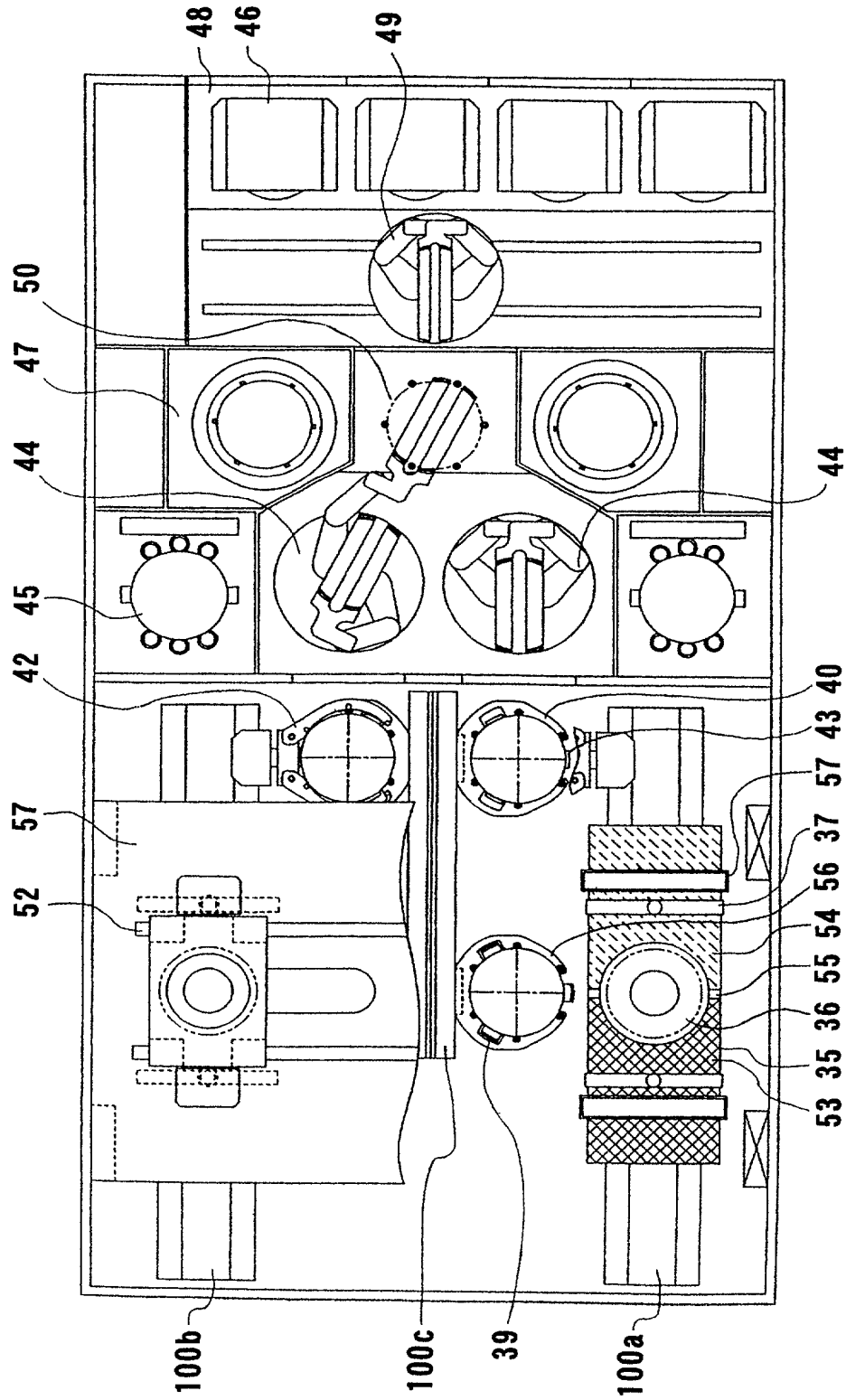


FIG. 17

GENERAL CHARACTERISTICS OF LINEAR MOTORS

	LIM	LDM	LPM
CONTINUOUS OPERATION	◎	△	○
INTERMITTENT OPERATION	○	◎	◎
SMALL-DISPLACEMENT RECIPROCAL MOVEMENT	△	◎	◎
LARGE-DISPLACEMENT RECIPROCAL MOVEMENT	◎	△	○
POSITIONING PERFORMANCE	○	◎	◎
LARGER PROPULSION	◎	○	○
LOW-SPEED OPERATION	◎	○	◎
HIGH-SPEED OPERATION	◎	○	△
OPEN-LOOP CONTROLLABILITY	○	×	◎
VERTICAL DELIVERY	○	△	○
SIMPLER CARRIAGE STRUCTURE	◎	△	○
SIMPLER CONTROL POWER SUPPLY	○	◎	○
PRICE	○	△	△
ADAPTABILITY	LARGE-OUTPUT, CONTINUOUS TRANSPORT MEDIUM AND HIGH-SPEED TRANSPORT	SMALL-DISPLACEMENT, HIGH-SPEED POSITIONAL CONTROL	LOW-SPEED, HIGH-PROPULSION TRANSPORT INTERMITTENT TRANSPORT POSITIONAL CONTROL

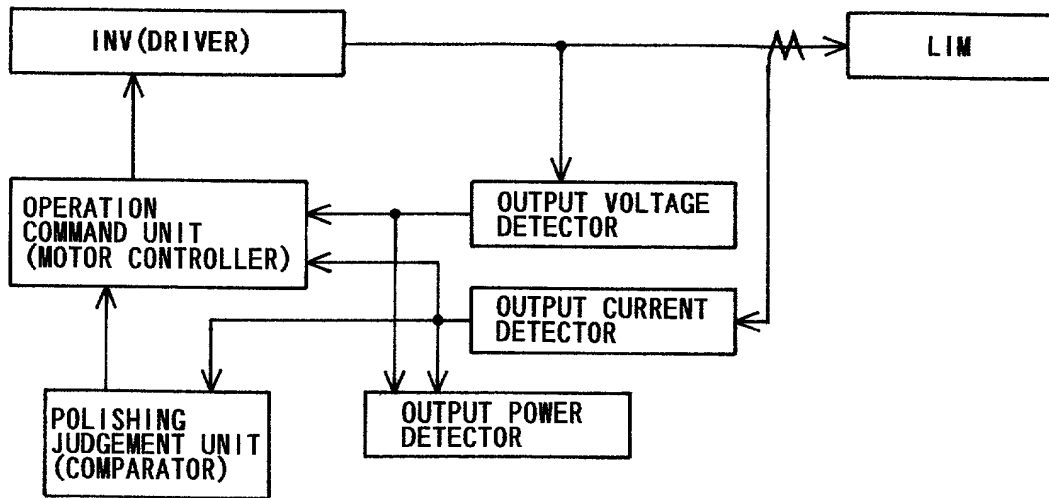
◎ : EXCELLENT ○ : GOOD △ : PROBLEMATIC × : DIFFICULT

LIM : INDUCTION MOTOR

LDM : DC MOTOR

LMP : PULSE MOTOR

FIG. 18



CONSTANT OUTPUT FREQUENCY CONDITION

	CONSTANT OUTPUT VOLTAGE		VARIABLE OUTPUT VOLTAGE (HIGH EFFICIENCY)	
	LIGHT LOAD	HEAVY LOAD	LIGHT LOAD	HEAVY LOAD
VOLTAGE			SMALL	LARGE
CURRENT	SMALL	LARGE	SMALL	LARGE
POWER	SMALL	LARGE	SMALL	LARGE
POWER FACTOR	△	○	○	○

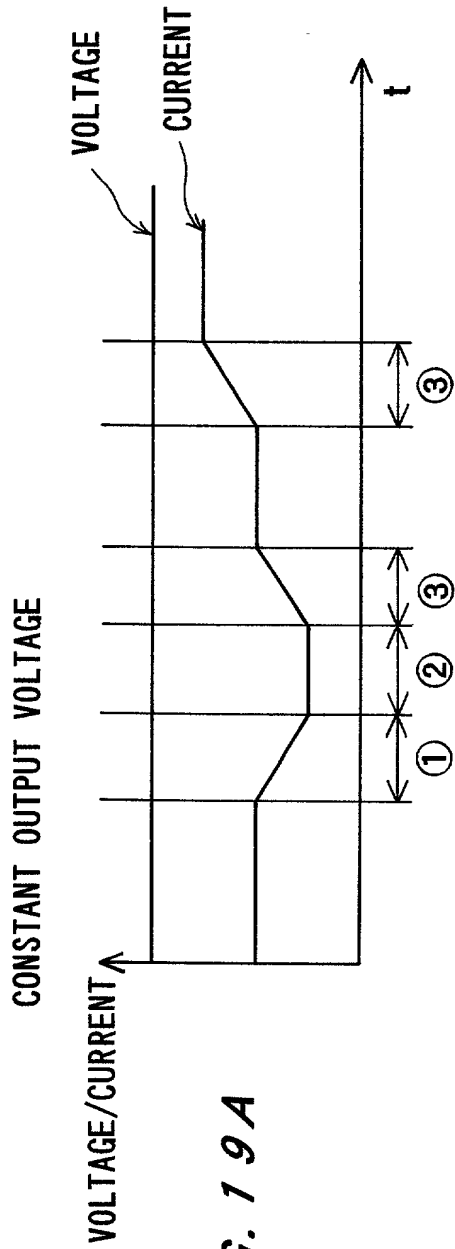


FIG. 19A

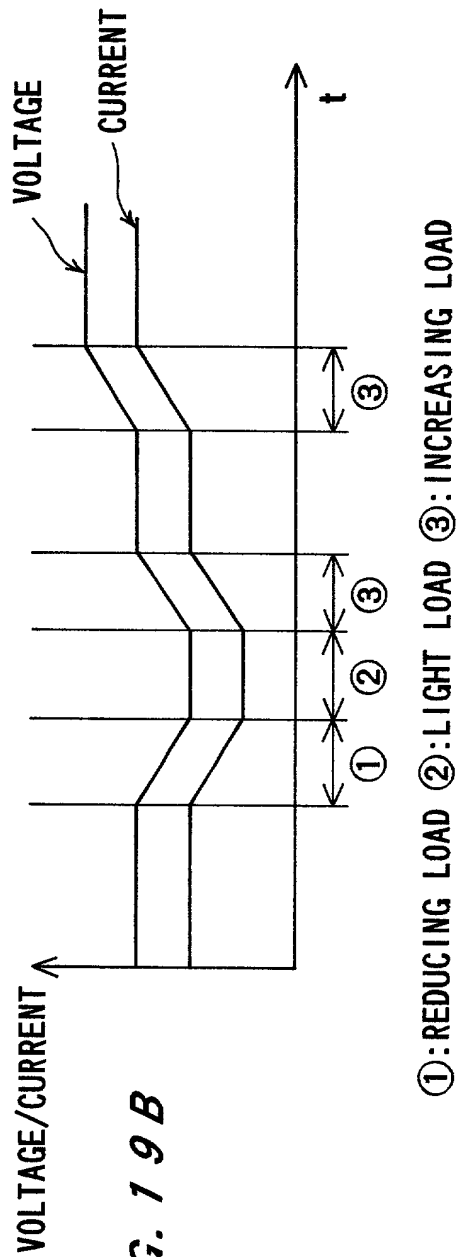


FIG. 19B

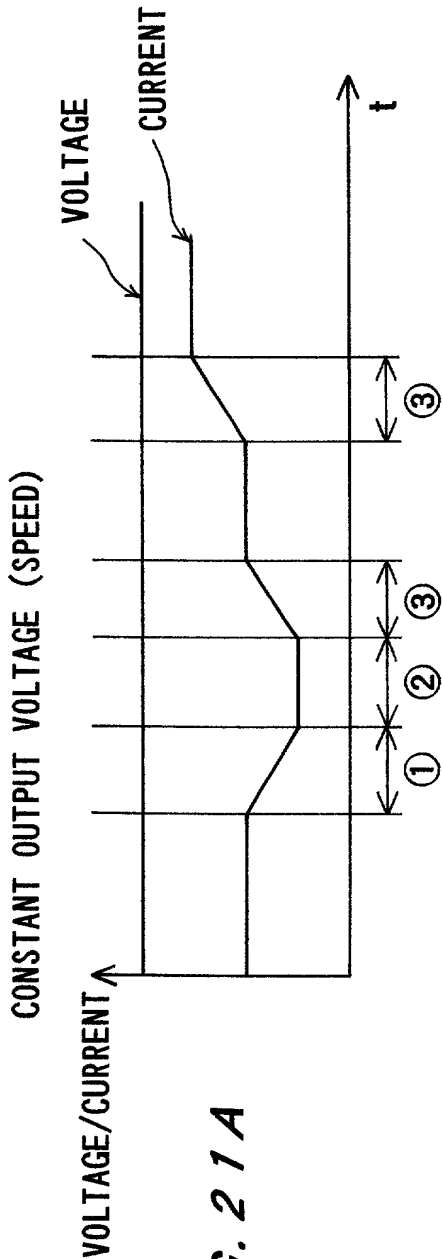


FIG. 21A

①: REDUCING LOAD ②: LIGHT LOAD ③: INCREASING LOAD

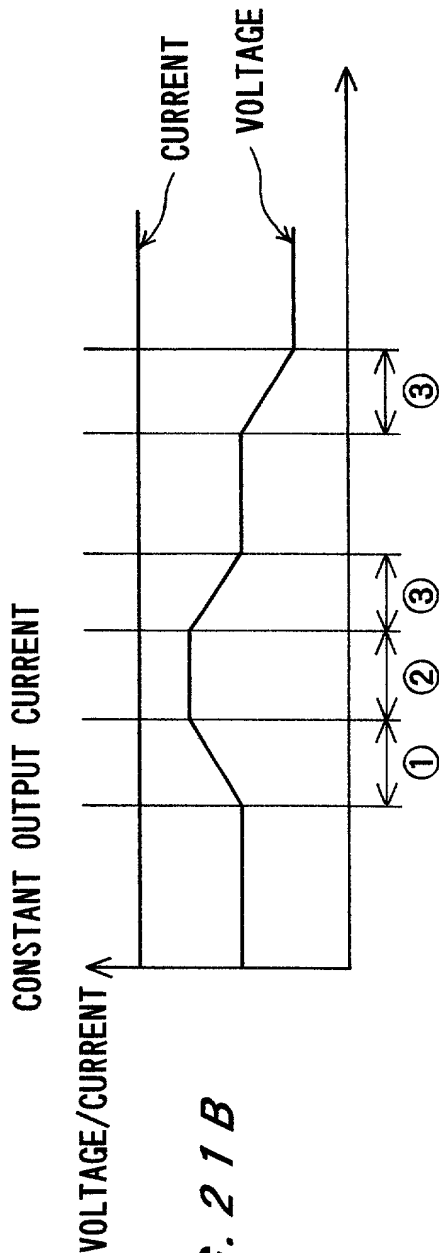


FIG. 21B

①: REDUCING LOAD ②: LIGHT LOAD ③: INCREASING LOAD

FIG. 22

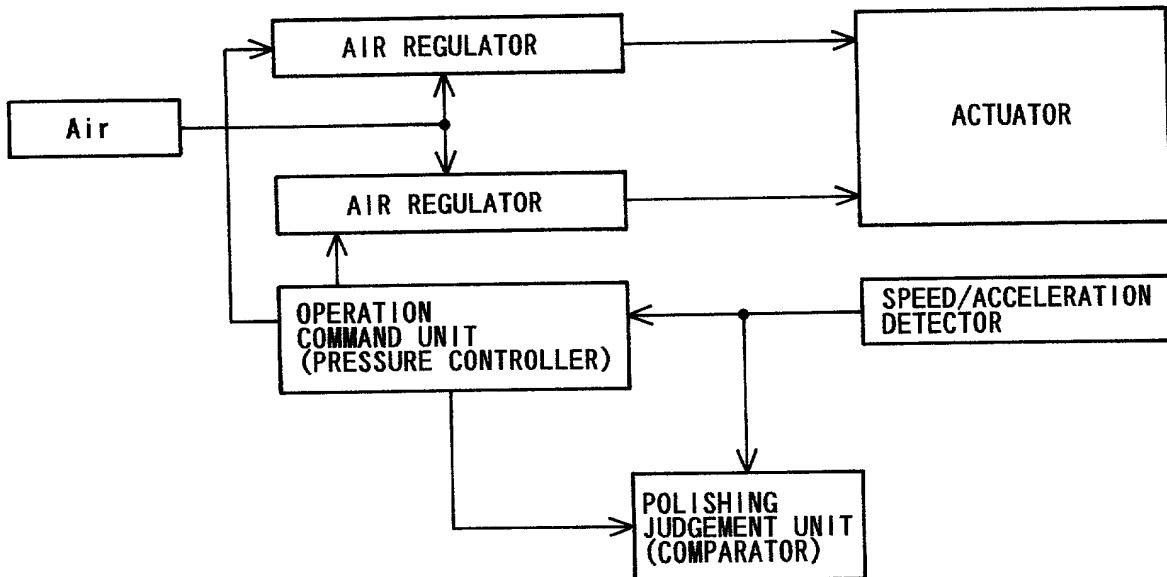


FIG. 23

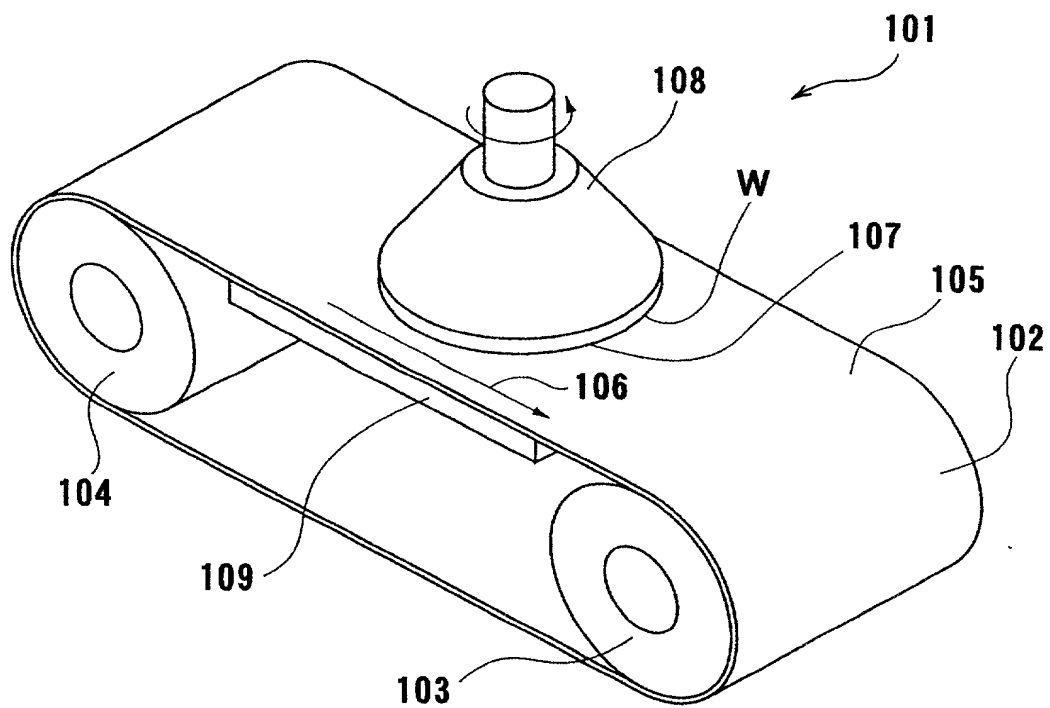


FIG. 23